UNIVERSITY OF EDUCATION, WINNEBA
INSTITUTE FOR TEACHER EDUCATION AND
CONTINUING PROFESSIONAL DEVELOPMENT
(ITECPD)
END-OF-SECOND-SEMESTER EXAMINATIONS. JAN., 2023

LEVEL 200
COURSE CODE: JBT 242
COURSE TITLE: APPLICATION DEVELOPMENT IN EDUCATION

TIME ALLOWED: 50 MINUTES

STUDENT'S INDEX NUMBER:

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GENERAL INSTRUCTIONS:
- This paper is made up of ONE SECTION.
- Section B is made up of four essay type questions.
- Answer TWO questions into your answer booklet.
- Each question carries equal marks. You are expected to start each question on a new page.
- You are expected to handover your answer booklet to the invigilator before you leave the examination hall.

SECTION B

1. a. Draw a flow chart to compute the radius of a circle. Derive your formula from the given equation: $A=\pi r^2$, then display the output. [6 marks]

    b. Define the following: [2 marks]
    i.   A Class [2 marks]
    ii. An Object?

2. In not less than five (5) stages, discuss the SDLC. [10 marks]

3. a. Write an algorithm to receive two numbers from a user, Sum and output the result. [5 marks]

    b. Write the C++ code for the algorithm in 3a. above. [5 marks]

4. a. Define the following terms:
    i.   Encapsulation [2 marks]
    ii. Polymorphism [2 marks]

    b. What is the difference between variables and constants? [4 marks]
    c. What is an IDE? [2 marks]